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see <http://www.purdue.edu/faculty-services>

TRIAL COURSE OR NEW COURSE

1. **Course Title:** \_\_\_\_\_

2. **Course Number:** \_\_\_\_\_

3. **Course Description:** \_\_\_\_\_

4. **Prerequisites:** \_\_\_\_\_

5. **Course Objectives:** \_\_\_\_\_

6. **Course Content:** \_\_\_\_\_

7. **Course Materials:** \_\_\_\_\_

8. **Course Evaluation:** \_\_\_\_\_

9. **Course Approval:** \_\_\_\_\_

10. **Course Status:** \_\_\_\_\_

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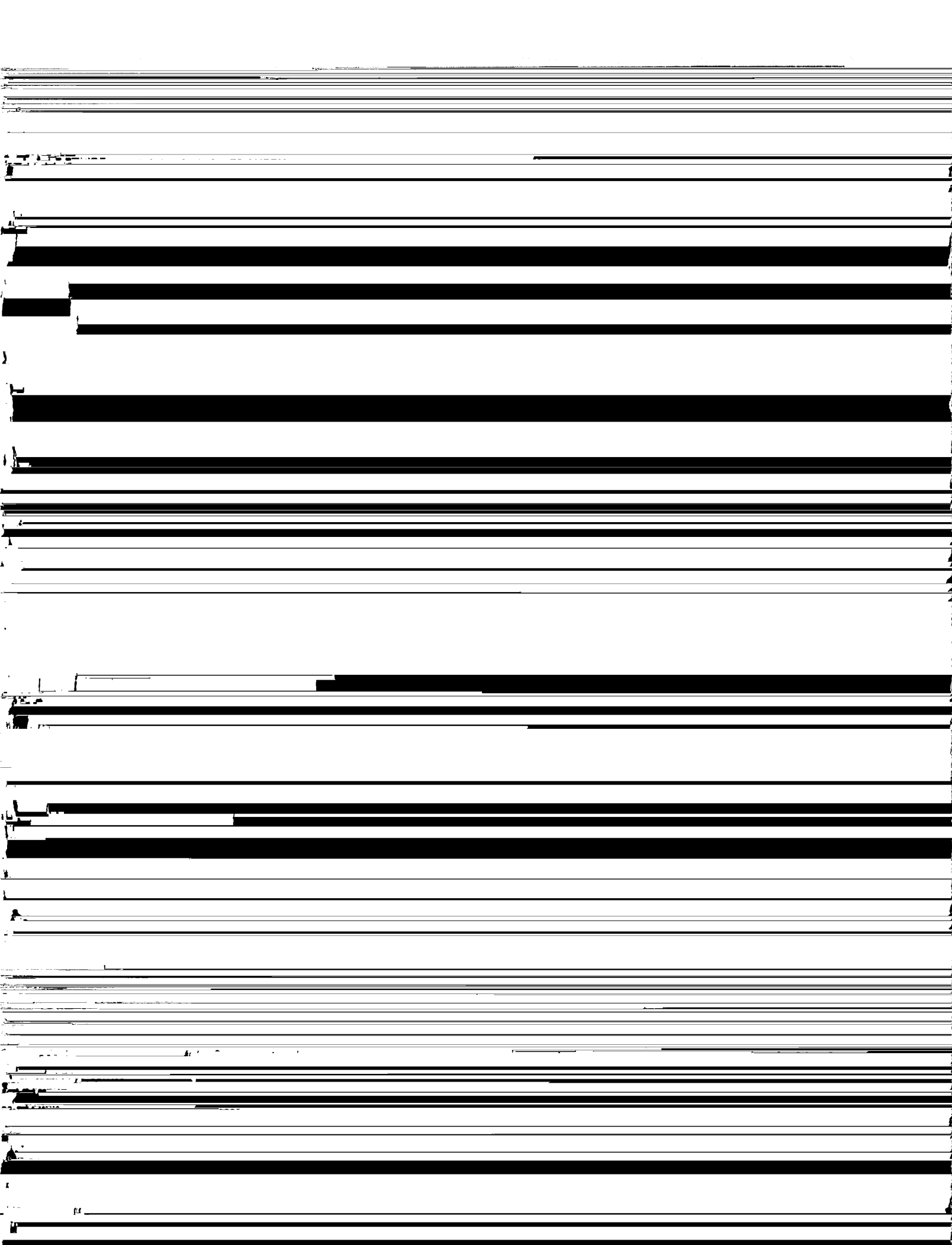
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**RESTRICTIONS ON ENROLLMENT (if any)**

**14. PREREQUISITES**

Completion of DEVM 105 or placement in higher

These will be *required* before the student is allowed to enroll in the course.

**15. SPECIAL RESTRICTIONS, CONDITIONS**

**16. PROPOSED COURSE FEES**

\$100 on campus  
\$250 off campus

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*Don't know*

*John B. Hunt*

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11-11-81

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Date
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Signature, Dean, College/School of:

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**ATTACH COMPLETE SYLLABUS (as part of this application).** This list is online at:  
<http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/>  
The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied.

**SYLLABUS CHECKLIST FOR ALL UAF COURSES**

During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout

NUMBER: CHEM 114Y (on campus CBN: TBD; Distance CBN: TBD)

CREDITS: 3  
PREREQUISITES: DEVM 105 or higher placement

ecosystem health.

Evaluate of what reported water quality

to be from across the state and internet data to assess

In order to use the available data to assess the health of a river or stream, it is necessary to

evaluate the available data to assess the health of a river or stream.

evaluate the available data to assess the health of a river or stream.

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will comprise 2 on-campus and 1 distance students) will generate lab-based replicate data sets of surface water quality data from communities across the state. Student groups will work closely and engage in peer mentoring (some students will develop expertise on the field site while others develop expertise in instrumentation) and build a community of learners across the state of Alaska

### **COURSE SCHEDULE**

See attached.

### **COURSE POLICIES**

Successful timely completion of this course is dependent on

percent of writing in the exam period.

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- Safety hazards, particularly:
  - Data interpretation and statistical observations
    - Neutralization of acids and bases

## 'Week 2 – Air Quality

Reading: Environmental Science, Ch 3, 25

Case study: Bear Trouble

• [Case study: Bear Trouble](#)

• [PSPLIT modeling of air plumes](#)

• [NH<sub>4</sub> trifluoroborate](#)

• [NH<sub>4</sub> trifluoroborate](#)

• [NH<sub>4</sub> trifluoroborate](#)

• [NH<sub>4</sub> trifluoroborate](#)

• [NH<sub>4</sub> trifluoroborate](#)

• [NH<sub>4</sub> trifluoroborate](#)

*Case study: PCBs in salmon causing accumulation in spawning lake sediments*

Lab 7: Contaminant Partitioning

- Contaminant partitioning in the environment

**Week 8– Weathering and Soil Formation**

Reading: Environmental Science, Ch 19, 23

*Case study- How permanent is permafrost?*

Lab 8: Weathering and Soil Formation

- Rocks into soil
- Exploring Alaskan soils

Reading: Environmental Science, Ch 24

*Case study – Pebble mine: Tension between mineral recovery, fishing, and community health*

Lab 9: Soil Quality and Contamination

- Soil contamination
- Treating acid mine drainage

**Week 10 – Environmental Microbiology I**

Reading: Environmental Science, Ch 25

Ch 26

Ch 27

Ch 28



CNSM committee comments on CHEM 111X Introduction to Environmental Chemistry of the Arctic

This proposal is to make CHEM 111X a new core course in the Chemistry department. The course has a split local-distance delivery format and is a lab course. The course is currently being delivered as a trial course Fall 2015, which is its first trial offering. Although approved last year as a trial course, the CNSM curriculum committee has a few concerns about the new course proposal and core designation.

Major comments:

- 1) A core designation is requested for this course, but it is only 3 credits. Core science courses

3) How is the distance lab component currently working in the trial semester? Are the students able to receive, unpack, and employ their kits successfully in the distance environment? Are they functioning well performing the lab activities on their own?

Dr. Conrad and myself collaborated with eScience Labs to generate high quality

experiments, a 166-pg lab manual, and a beautiful lab kit for distance students. Students have received the kits, and been using them without trouble to perform the lab experiments. We have been available to troubleshoot during the on-campus lab time as well as via email and have had



Minor comments:

1) Course is referred to as both CHEM 104 and CHEM 111 in both format and syllabus. For

Change implemented.